

Roth Alu-LaserPlus® pipe

– The Roth Alu-LaserPlus® pipe system is designed for both water and heating installations

Description

The Alu-LaserPlus® pipe is a quality product developed for water and heating systems.

The pipe is made up of 5 layers in the familiar standard dimensions 16 x 2.0, 20 x 2.0, 26 x 3.0, 32 x 3.0, 40 x 3.5, 50 x 4.0, 63 x 4.5.

The pipe is made up of a thick-walled PE-RT tube, adhesive, laser-welded aluminium sleeve, adhesive and a protective layer of PE on the outside.

As the inner pipe is thick-walled, the pipes can withstand the approved pressures and without the use of an aluminum insert.

The production is quality-assured in accordance with ISO 9001 and is monitored by a number of independent testing institutes.

The Alu-LaserPlus® pipe also proves to be very strong and robust in long-term tests at high temperatures.

An Alu-LaserPlus® pipe features a safety factor that goes well beyond the normal requirement. Continuous tests are performed in accordance with DIN 16892.



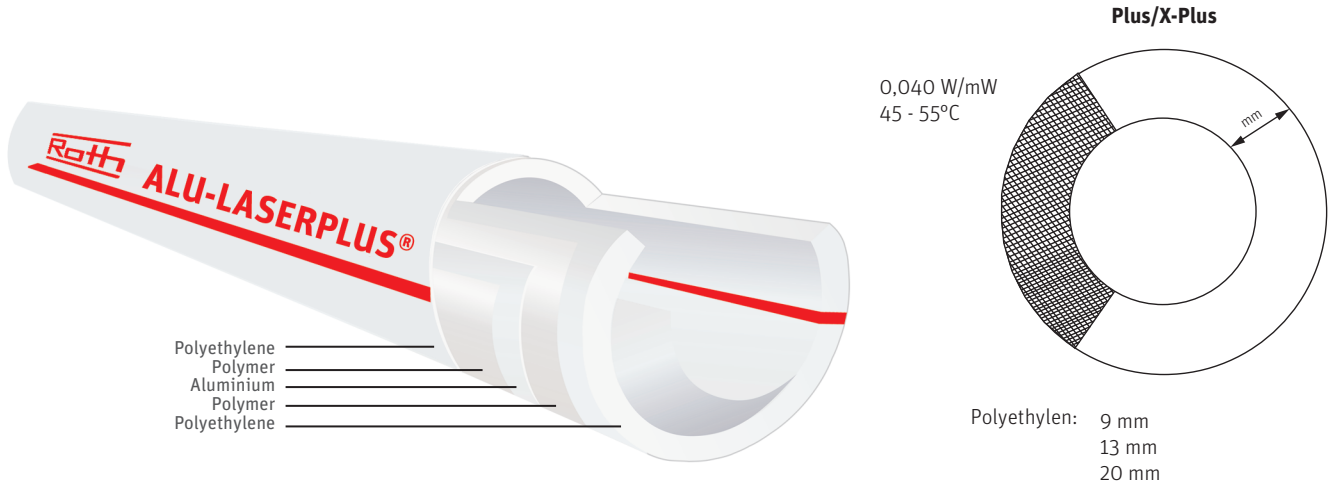
The Roth Alu-LaserPlus® pipe has many advantages:

- › Longevity
- › High level of heat stability, permissible operating temperature up to 70°C (95°C in the short term) at an operating pressure of 6 bar.
- › withstands "construction-site treatment"
- › The aluminium sleeve is protected inside the pipe wall
- › Great flexibility that makes it easy to work with, including in cold conditions
- › Diffusion-resistant in accordance with DIN 4726

Physical properties of Roth Alu-LaserPlus® pipe							
	16 mm	20 mm	26 mm	32 mm	40 mm	50 mm	63 mm
Heat-conduction capacity W/m K	0.35	0.35	0.35	0.35	0.35	0.35	0.35
Longitudinal coefficient of expansion:	0.25 x 10 ⁻⁴	0.25 x 10 ⁻⁴	0.25 x 10 ⁻⁴	0.25 x 10 ⁻⁴	0.25 x 10 ⁻⁴	0.25 x 10 ⁻⁴	0.25 x 10 ⁻⁴
Minimum bend radius	5 x dia.	5 x dia.	5 x dia.	5 x dia.	5 x dia.	5 x dia.	5 x dia.
Pipe roughness, mm	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003
Number of layers in pipe wall	5	5	5	5	5	5	5
Max. operating temperature, °C	70	70	70	70	70	70	70
Max. short-term temperature, °C	95	95	95	95	95	95	95
Max. operating pressure, bar	10	10	10	10	10	10	10
Weight, Kg/m	0.125	0.15	0.27	0.34	0.516	0.718	1.06
Water content L/m	0.13	0.21	0.32	0.54	0.86	1.39	2.38
Diffusion-resistant in accordance with	DIN 4726						
Manufactured in accordance with	EN ISO 22391						
Possible delivery lengths:							
25 metres pipe-in-pipe			X	X			
25 metres ISO PLUS and X-PLUS			X	X			
50 metres pipe-in-pipe	X	X					
50 metres ISO PLUS and X-PLUS	X	X					
25 metres			X				
50 metres	X						
100 metres	X	X					
240 metres	X	X					
500 metres	X						
3.2 metres, straight lengths	X	X	X	X	X	X	X
5.0 metres, straight lengths	X	X	X	X	X	X	X

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Pressure-loss diagram for Roth Alu-LaserPlus® pipe

